HW#69H: Quadrantal Angles & Reference Angles

Honors Geometry

DUE: Friday, March 13th, 2015

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle!**

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| 1) Find the **exact** value of the given function:  **cot**   1. Graph the angle:      1. What is the reference angle? 2. What is the value of **cot** ? | 2) Find the **exact** value of the given function:  **csc**   1. Graph the angle:      1. What is the reference angle? 2. What is the value of **csc**  ? |
| 3) Find the **exact** value of the given function:  **sin**   1. Graph the angle:      1. What is the reference angle? 2. What is the value of **sin** ? | 4) Find the **exact** value of the given function:  **tan**   1. Graph the angle:      1. What is the reference angle? 2. What is the value of **tan** ? |
| 5) Myth or Fact: If cos  **>** 0 and cot < 0 then lies in quadrant IV. Explain your answer. | |
| 6) Myth or Fact: If sin  **<** 0 and cos  > 0 then lies in quadrant II. Explain your answer. | |
| 7) Name the quadrant in which the angle lies. If sec  **<** 0 and tan  > 0.  Explain your answer: | |

Determine whether each statement makes sense or does not make sense, and explain your reasoning.

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| 8) Tan 225⁰ has a positive solution since its reference angle lies in quadrant II. | 9) Csc 300⁰ has a negative solution since its reference angle lies in quadrant IV. |
| 10) This angle  is in a quadrant for which  and  (Think about the value of x and y in each quadrant) | 11) I am given the following:  therefore I can conclude that y = 3 and x = 5. |